ITA compact series
Decorative laser with wireless remote

User manual

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Safety instructions

WARNING!

Always keep this device away from moisture and rain! Hazardous electrical shocks may occur!

WARNING!

Only connect this device to a matching power outlet. This device is intended to work on a specified AC currency. Connecting this device to power outlets with other voltages may result in permanent damage and possible hazardous situations, such as fire or electrical shocks!

WARNING!

Be careful with every operation of this device. Touching live wires inside and outside the unit may cause hazardous electrical shocks!

This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

Every person involved with the installation, operation and maintenance of this device has to:
- Be qualified
- Follow the instructions of this manual

- Make sure there is no damage caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information and consultation.
- To make sure the device maintains in perfect condition and for safe operation, it is necessary for the user to follow the instructions and warning notes of this user manual.
- Damage caused by improper use or modifications to the device are not covered by warranty.
- This device does not have any user-serviceable parts inside. Servicing of this device needs to be done by qualified technicians.

Important notes regarding safety and health:
- Never let the power cord come in contact with other cables. Handle the power cord and all connectors with the mains with caution.
- Never remove any warning or informative labels from the unit
- The ground contact always needs to be connected. Do not cover or remove the ground contact.
- Never leave cables lying around
- Do not open the device and do not modify any hard- or software of this unit.
- Do not insert this object into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the system on and off frequently as this will reduce the lifespan of the device.
- Do not drive the inputs of the fixture with a signal larger than required to work at full performance.
- Only use this device indoor, avoid contact with water, moist or other liquids. Do not place items filled with liquids on top of the unit.

- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for a longer period or time, when servicing is needed or when the device needs cleaning.
- Only handle the power cord by its connectors. Never pull the cable to remove a connector from its socket, as this could lead to damage and electrical shocks.
- Always operate this device with a stable AC current.
- Always operate this device with the AC ground wire connected to the electrical system's ground.
- Never use other types of cables than specified in the manual, do not use defective or bad functioning cables. Contact your dealer when the included or required cables do not work properly with this device.
- When the device has been exposed to large temperature differences (for example, transport from outdoor to indoor), do not connect the device immediately. Do not activate the unit until it has reached room temperature, as moist might build up inside the unit, which may cause shortcuts and/or electrical shocks.

Guidelines and types of use:
- This device is intended to be used by professionals on stage, in theaters, clubs and other equal venues.
- This device is not suitable for children and always needs to be operated by an adult.
- Only use the device when the environment is suitable and will not cause any damage. Do not use the product in moist or dusty environments, or where long-term damage may occur such as:
    - indoor swimming pools where chlorine is used.
    - Beaches, where sand and salt are present.
    - Outdoor, without roof protection
    - Indoor areas where intense heat sources are present or where the temperature exceeds levels which are comfortable for humans.
- Only use the included power adapter and only connect the device to a suitable power outlet with the correct output voltage. Connecting the device to a power outlet with the wrong type of voltage or using the product with a wrong type of power supply may cause permanent damage to the device.
- Avoid shocks and collision during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarize yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in other ways than described in this user manual may cause damage and injury. Ayra does not take responsibility for any damage or injury caused by improper use.

Storage and transport:
- This device is intended for mobile use. When transported, use the original packaging of the product, or a fitting flightcase, preferably filled with foam.
- This device is not intended for permanent use. Operation breaks will ensure that the lifespan of the device remains unchanged.
- If the device is not used for a longer period of time, disconnect it from its power source and store it in its original packaging, or in a fitting flightcase.
- Store the device indoor, dry and do not expose the device to extreme temperature differences.

Housing:
- Inspect the housing of the device frequently. Severe dents, cracks and missing screws should be avoided at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician when corrosion is found on the fixture
- Every power or signal chassis/connector should be mounted tightly. Do not use the device when connectors are loose.
- Do not use the power cord when the cores are visible. Contact your dealer for a replacement if needed.
- Avoid the buildup of dust and dirt. Clean the exterior of the fixture every month with a dry or damp cloth. When using the device intensively, the cleaning frequency needs to be increased.

Guidelines for laser devices

Laser diode guidelines:

WARNING!

This device emits powerful laser beams! Do not look directly in the laser beam to avoid possible permanent injury to eyes and skin! This is a class 3B laser product.

- This device is a professional show and entertainment laser product. The device emits laser beams with a wavelength spectrum between 400 and 700 nm.
- This laser device has a different type of light source than other lighting products. This device is equipped with powerful, concentrated laser beams which could cause serious injuries when used incorrectly. Laser beams are approximately 1000x more powerful than regular light bulbs. This is caused by the very tight projection angle of the laser diode, which is far more concentrated than a regular light source. The combined power of the laser diode is powerful enough to cause permanent visual loss and other injuries when used incorrectly.
- Harmful laser beams which may cause injury do not feel 'hot'. It is possible that laser beams which do not generate noticeable heat cause serious injury. In most cases, this is visual loss, caused by a laser diode because it is focussing on the retina, a sensitive part of the eye which is very sensitive to lighting. Concentrated laser beams might burn the retina, causing permanent visual loss.
- Do not aim this laser device directly into your audience. The minimum distance in height between the floor and the laser device should be more than 3 meters.
- A laser operator is required for the operation of this laser device. Never leave the laser device running unattended.
- The requirements for laser shows may vary from country to country and even from region to region. Contact your local authorities for more information regarding professional laser shows for indoor and outdoor applications.
- Never point the laser directly to reflective surfaces nearby, as this might scatter the laser beams throughout the room.

Optics guidelines:
- Never cover the beam output of the laser!
- Do not remove or replace the lens.
- Do not touch the lens with your fingers
- Only clean the lens with a non-aggressive solution or a damp cloth

Exterior guidelines:
- When used in a hanging position, the device always needs to be secured by using a safety cable. Attach the safety cable to the provided safety eye with the carabiner hook. A safety cable is not included in delivery and can be purchased separately.
- The device must be installed on a flat surface or hanging from a solid construction by using the included bracket. Never hold the machine in your hands during use!
- When using the device in a hanging position, always mount a G-clamp or half coupler to the bracket, or use bolts to install the bracket directly to a ceiling or beam.

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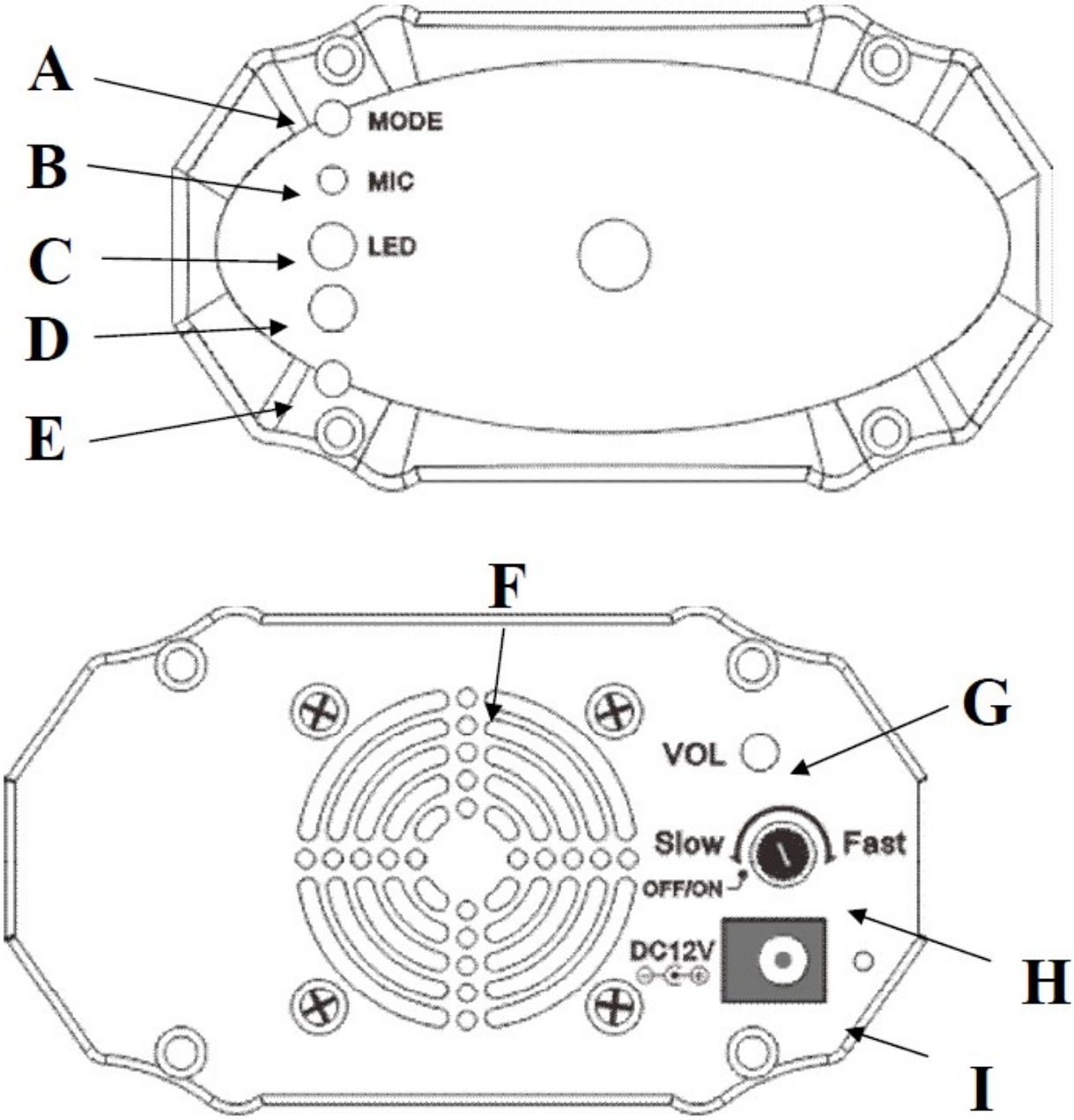
Box contents

Box contents
1x Ayra ITA compact series laser (ITA Galaxa, ITA Shine Star, ITA Gobo Star)
1x power adapter
1x wireless remote control
1x battery

Unit and accessory inspection
- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

Device overview



A. Mode switch (to change the operating mode without remote control)
B. Internal microphone for the music-controlled mode
C. Red/green LED, status indicator
D. Blue LED, remote code indicator light
E. Key switch for remote key removal (Do not use unless you wish to remove the wireless code from the system! For more information, consult the chapter about the remote control function in this manual)
F. Cooling fan, 4x4x1 mm, DC 12V, 0.09A
G. Potentiometer to adjust the sound sensitivity, which can be changed with a Phillips screwdriver
H. Rotation speed potentiometer with OFF-function: Use this knob to change the movement or rotation speed of the built-in patterns. Turning the knob all the way to the left will cause a 'click' and turn off the laser.
I. Power adapter socket: Working voltage: 12V DC

Setting up the device

To activate the unit, connect the included power supply with the unit and a suitable 230V, 50 Hz power outlet. The unit will activate directly after it is plugged in to a wall outlet or other power source, unless the Slow/Fast knob is turned to the OFF-position.

The laser device has several operating modes: Sound active, auto play and remote control. The remote control has the capability to start the auto and music mode, plus some other functions.

Automatic mode:
This function automatically runs through all the built-in patterns of the unit (or several rotation modes, depending on the type of laser).

Music controlled mode:
Select this mode when you want to have a music-synchronized light show. The unit has a built-in microphone, which it uses to 'listen' to the beat of the music. With every beat, a certain action is taken. This may be movement (rotation), color change, gobo change or the activation of the strobe mode.

Manual mode with remote control:
With the included remote control, it is possible to adjust the operating mode and several features of the laser.

The remote has the following buttons:
A: Auto/Sound – This button is used to switch between the automatic and music-controlled mode
B: Blackout – This button is used to activate the blackout-function, which disables the output of the laser when activated. This has no consequences on the selected operating mode or the internal fan.
C: Color – This button makes it possible to change the color of the laser (red, green, red and green or switching/strobe mode)
D: Direction/Gobo – This button makes it possible to rotate the internal gobo disc. Depending on the type of laser, it changes the direction of your projected image, or it changes between the several built-in patterns.
Speed/sensitivity control:
On the rear of the remote, you will find controls to change the microphone sensitivity and manual speed control.

Microphone sensitivity: The mic sensitivity can be changed with a Phillips screwdriver. Turned to the left, the sensitivity is decreased. Turned to the right, the sensitivity will be increased.

Speed control: With the larger knob, located underneath the mic sensitivity setting, it is possible to change the rotation speed when this function is selected with the automatic or remote control mode.
When turned to the left, the rotation speed will be decreased. When turned to the right, the rotation speed will be increased.
When fully turned to the left, you will hear a click. This is the OFF-function, to switch off the laser. When the laser is in the OFF-position, turn the knob to the right to activate the laser again.

Important information for optimal use of your laser
- This laser has a pre-defined remote control, which has a factory-setting code to connect with your specific laser. Therefore, it is not possible to use one remote to operate different ITA Compact lasers (ITA Galaxa, ITA Shine Star, ITA Gobo Star).

Erasing the remote control code:
Press and hold the Key Switch button for 5 seconds. When successful, the blue indicator LED will light up. Once the indicator LED turns off again, the code is deleted successfully.

Activating a remote control code:
Press and hold the Key Switch button on the laser device, then push a random button on your remote control. After pressing the button, the blue indicator LED will flash 4 times, confirming that the settings have been stored.

Try to operate the laser after these steps. When successful, the laser will follow the selected commands on your remote control.

- Laser diodes are very temperature sensitive. It is therefore possible that a lack of output or any flickering is noticeable when using the laser in cold environments. Give the laser a warm-up time between 5 and 15 minutes, after this the beam output should be steady and on full power.

Differences:
ITA Galaxa: Dual lens output, one for each laser colour. Grating effect for both lenses.

ITA Gobo Star: Single lens, several figures with grating effect.

ITA Shine Star: Dual lens output, with one green cross rotating effect and one red grating effect.

Troubleshooting

If you have any problems with this laser device, consult this troubleshooting section to solve any difficulties with your product. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequent problems and is not a complete collection of possible faults, defects and solutions. The troubleshooting section applies for stand-alone laser devices. It is possible that not all described problems, causes and solutions apply to your situation as product details may vary from product to product.

Problem	**Possible Cause**	**Solution**
Laser device does not activate itself or does not produce any light	Power adapter not plugged in (to a socket or the laser device)	Check if the laser device is connected to a wall outlet properly
	Main fuse blown	Check if other appliances connected to the same power source are activated. If not, check the fuse box of your mains power supply and see if any circuit breakers were activated.
	Broken laser diodes	Disconnect the device and contact your local dealer for help and support.
Laser only projects a static pattern	Laser turned to music mode, but there is no music source	Increase the music volume or place the laser device closer to the music source.
	Laser grating lens motor broken	Disconnect the device and contact your local dealer for help and support.
Laser pattern changes too slow/fast in auto mode	Speed setting set too high/low	Increase/decrease the Speed knob on the rear of the device.

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Technical specifications

- compact laser device with grating technology
- two laser diodes, two outputs
- green 30mW laserdiode
- red 100mW laserdiode
- diffraction (grating) lens, dividing the laser beams into hundreds of small individual beams
- rotating lens and cross-star autorotation effects
- music controlled and automatic working mode
- music controlled mode with internal microphone
- automatic working mode with continuous rotation and flashing diodes
- adjustable speed (slow, medium,fast)
- mode-switch
- included mounting bracket
- mounting hardware included
- included power supply
- power requirements: 230V AC, 50 Hz
- operation voltage: 12V DC
- dimensions: 98 x 140 x 60 mm
- weight: 0.5 kg

ITA Galaxa: Dual lens output, one for each laser colour. Grating effect for both lenses.

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